

WHAT IS CLAIMED IS:

1. A mobile communication terminal with an integrated camera, the mobile communication terminal comprising:

5 a body;

at least one manipulation device disposed on the body that performs an operational function of the camera; and

a display for reproducing an image created by the camera, wherein the camera is mounted on the body of the mobile communication terminal so that orientation of the camera can be  
10 manipulated.

2. The terminal of claim 1, wherein the terminal is a folding type mobile communication terminal and further comprises:

a lower main folder;

15 an upper subfolder;

a hinge connection element that pivotally connects the lower main folder to the upper subfolder, wherein the hinge connection element has a first side laterally opposite to a second side;

an adjustment plate disposed on the first side of the hinge connection element, wherein  
20 manipulation of the adjustment plate results in a change in orientation of the camera; and  
the camera disposed on the second side of the hinge connection element.

3. The terminal of claim 2, further comprising at least one shaft axially disposed in the hinge connection element and having first and second ends connected to the adjustment plate and the camera, respectively.

5 4. The terminal of claim 3, wherein at least one of the first and second ends of the shaft is connected to the adjustment plate and the camera, respectively, via a universal joint element.

10 5. The terminal of claim 4, further comprising:  
a central shaft axially disposed approximately centrally within the hinge connection element;  
a right shaft, a left shaft, an upper shaft, and a lower shaft axially disposed in the hinge connection element; wherein the right, left, upper and lower shafts are approximately symmetrically disposed around the central shaft; and  
15 first and second shaft openings formed on the first and second sides of the hinge connection element, respectively, wherein the central, right, left, upper and lower shafts travel through the first and second openings and are connected to the adjustment plate and camera, respectively.

20 6. The terminal of claim 5, wherein the first and second openings are cruciform in shape.

7. The terminal of claim 5, wherein a first and second stoppers are disposed on the first and second ends of the central shaft, respectively, adjacent to the first and second ends of the hinge connection element.

5 8. The terminal of claim 2, wherein the adjustment plate comprises a rigid polymer.

9. The terminal of claim 2, wherein the adjustment plate comprises a flexible rubber.

11. A method to operate a folding type mobile communication terminal with an  
10 integrated camera, the method comprising the steps of:  
aiming the integrated camera, which is mounted on a first lateral end of a hinge  
connection element, towards a subject to be photographed,  
manipulating an adjustment plate, which is mounted on a second lateral end of the hinge  
connection element, by providing a lateral force onto an area of the adjustment plate opposite to  
15 a desired pivot direction of the camera, thereby axially displacing at least one shaft connecting  
the adjustment plate to the integrated camera; and  
manipulating at least one terminal manipulation device to photograph the subject.

12. The terminal of claim 1, wherein the terminal is a folding type mobile  
20 communication terminal and further comprises:  
a lower main folder;  
an upper subfolder;

a tubular hinge connection element that pivotally connects the lower main folder to the upper subfolder, wherein the tubular hinge connection element comprises a first side laterally opposite to a second side;

a cylindrical pivot member inserted into the tubular hinge connection element;

5        an adjustment plate disposed on the first side of the tubular hinge connection element, wherein manipulation of the adjustment plate results in a change in orientation of the camera; and

the camera disposed on the second side of the tubular hinge connection element.

10        13.     The terminal of claim 12, further comprising:

at least one partially circumferential groove formed on inner surface of the tubular hinge connection element; and

at least one protrusion formed on the cylindrical pivot member, wherein the at least one protrusion engages the at least one partially circumferential groove so that rotation of the

15        cylindrical pivot member is limited within the tubular hinge connection element.

14.     The terminal of claim 13, further comprising at least one shaft axially disposed within the tubular hinge connection element and having first and second ends connected to the adjustment plate and the camera, respectively.

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15.     The terminal of claim 14, wherein at least one of the first and second ends of the shaft is connected to the adjustment plate and the camera, respectively, via a universal joint element.

16. The terminal of claim 15, further comprising:

a central shaft axially disposed approximately centrally within the tubular hinge connection element;

5 a right shaft, a left shaft, an upper shaft, and a lower shaft axially disposed in the tubular hinge connection element; wherein the right, left, upper and lower shafts are approximately symmetrically disposed around the central shaft; and

first and second shaft openings formed on the first and second sides of the tubular hinge connection element, respectively, wherein the central, right, left, upper and lower shafts travel through the first and second openings and are connected to the adjustment plate and camera,  
10 respectively.

17. The terminal of claim 16, wherein the first and second openings are cruciform in shape.

15 18. The terminal of claim 16, wherein first and second stoppers are disposed on the first and second ends of the central shaft, respectively, adjacent to the first and second ends of the tubular hinge connection element.

19. The terminal of claim 12, wherein the adjustment plate comprises a rigid polymer.

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20. The terminal of claim 12, wherein the adjustment plate comprises a flexible rubber.

21. A method to operate a folding type mobile communication terminal with an integrated camera, the method comprising the steps of:

aiming the integrated camera, which is mounted on a first lateral end of a tubular hinge connection element, towards a subject to be photographed,

5 rotating an adjustment plate, which is mounted on a second lateral end of the tubular hinge connection element and is in operational relationship with the integrated camera via at least one shaft disposed through the tubular hinge connection element, to rotate the integrated camera so that a lens of the integrated camera is pointed in a desired direction;

manipulating the adjustment plate by providing a lateral force onto an area of the  
10 adjustment plate opposite to a desired pivot direction of the camera, thereby axially displacing the shaft connecting the adjustment plate to the integrated camera; and

manipulating at least one terminal manipulation device to photograph the subject.